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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,634	08/01/2001	Yoon-Hyoung Cho	247/033	3246
7590 04/29/2004			EXAMINER	
Lee & STERBA, P.C.			PATEL, ASHOK	
Suite 2000 1101 Wilson Boulevard			ART UNIT	PAPER NUMBER
Arlington, VA 22209			2879	

DATE MAILED: 04/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)	eK
Office Aut 0	09/918,634	CHO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ashok Patel	2879	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence add	iress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this cor ED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 30 Oc	ctober 2003 and 23 February 20	04.	
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.	<u> </u>	
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the	merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1 and 3</u> is/are pending in the applicati	on		
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 3</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcti		-	· ·
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT0	D-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a	n)-(d) or (f).	
 Certified copies of the priority documents 	have been received.		
2. Certified copies of the priority documents			
3. Copies of the certified copies of the prior		ed in this National S	Stage
application from the International Bureau * See the attached detailed Office action for a list of	. , , , , , , , , , , , , , , , , , , ,	ad	
dee the attached detailed Office action for a list (or the certified copies not receive	eu.	
Attachment(s)			
Notice of References Cited (PTO-892)	4) 🔲 Interview Summary		
2)	Paper No(s)/Mail D 5) Notice of Informal F		152)
Paper No(s)/Mail Date	6) Other:	atom repriseduon (PTO-	102)

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1. This office action is in view of: (a) applicant's inquiry on or about January 10, 2004 about status of a revised second terminal disclaimer that was filed on 10/30/2003, (b) applicant's telephonic arguments on or about January 10, 2004 that the final rejection (paper no. 1103) was premature based on a timely filed abovementioned revised second terminal disclaimer.

The Examiner learned that the terminal disclaimer was filed in a timely manner but was not matched in a timely manner. As per applicant's telephone arguments that the final rejection (paper no. 1103) was premature by way not referring to the revised second terminal disclaimer, the Examiner does not disagree with applicant in this matter. The Final rejection (paper no 1103) was issued and mailed out *prior* to matching of the revised second terminal disclaimer.

However, not going into details of issuing the last final rejection (paper no 1103) prior to the matching of the second revised terminal disclaimer, the Examiner issues a fresh office action considering the second revised terminal disclaimer.

Following is merely a substantial duplicate of the last final rejection (paper no. 1103) with removal of paragraph numbers 6, 7 and 9.

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2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kawamura et al ('321, of record).

Kawamura et al disclose applicant's claimed CRT (see

Figures 1, 2) including a flat panel (1), a funnel having a neck

and an opening, an electron gun (7), a deflection yoke (9), a

shadow mask (6), wherein the panel includes a flatly configured

outer (front) surface (11) and an inner surface (the surface

that is adjacent to a phosphor layer 10) having a non-spherical,

convexly curved configuration relative to the outer surface

which would inherently satisfying applicant's claimed formula of

Y1 ≤ Y2, wherein Y1 represents a vertical distance between the

outer surface and a reflected screen image on a central axis of

the panel, and Y2 represents a vertical distance between the

outer surface and the refracted screen image in peripheral areas

other than the central axis of the panel.

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The new limitation "the panel is formed of a transparent glass having a transmission ratio of 60% or more", is narrative in form and does not include any positive structure and therefore carry a patentable weight.

Alternatively, since Kawamura et al's glass panel is also formed of glass as claimed by applicant, Kawamura et al's glass panel would also inherently transmit at a ratio of 60% or more.

Consequently, Kawamura anticipate applicant's claims 1 and 3.

4. Claims 1 and 3 4 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Makoto (JP '710, of record).

Makoto et al disclose applicant's claimed CRT (see all drawing Figures) including a flat panel, a funnel having a neck and an opening, an electron gun, a deflection yoke, a shadow mask, wherein the panel includes a flatly configured outer (front) surface (11) and an inner surface (2) having a nonspherical, convexly curved configuration relative to the outer surface which would inherently satisfying applicant's claimed formula of Y1 < Y2, wherein Y1 represents a vertical distance between the outer surface and a reflected screen image on a central axis of the panel, and Y2 represents a vertical distance between the outer surface and the refracted screen image in peripheral areas other than the central axis of the panel. The

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limitation "a glass having a transmission ratio of 60% or more", is again not given a patentable weight for reasons set forth in the previous paragraph.

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Next, alternatively Makoto's glass panel would also inherently transmit at a ratio of 60% or more since Makoto's glass panel is also formed of glass as claimed by applicant.

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1 and 3 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 5-9, 13-16, 19 and 25-28 of copending Application No. 09/982,984. Although the conflicting claims are not identical, they are not patentably distinct from each other because each of these two co-pending applications

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recites applicant's claimed flat panel CRT including: configuration of inner and outer surfaces, relationship between Y1 and Y2, transmission ratio, as what are now being recited in instant claims 1 and 3.

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Comparison of claims is as follows:

Instant application Co-pending application 09/982,984

Claims 1 and 3: 1, 5-8; 9, 13-16; 19, and 25-28;

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

7. Claims 1 and 3 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3-6, 10, 12-15, 19 and 21-24.

Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1, 3-6, 10, 12-15, 19 and 21-24 of U.S. Patent no. 6,680,565 recite applicant's claimed flat panel CRT including: configuration of inner and outer surfaces, relationship between Y1 and Y2, transmission ratio, as what are now being recited in instant claims 1 and 3.

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Comparison of claims is as follows:

Instant application U.S. Patent 6,680,565

Claims 1 and 3:

1, 3-6; 10, 12-15; 19, and 21-24;

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- 8. The Examiner noted that the limitation "the panel is formed of a glass" is a newly added limitation. That is to say, this limitation was not presented in any claim earlier (this office action is issued in view of applicant's amendment filed on 10/30/2003). The panel of Kawamura et al or Makoto inherently includes glass, as claimed by applicant. Since applicant's claimed glass panel is structurally not distinguished from that of Kawamura et al or Makoto's glass panel, the Examiner additionally/alternatively takes the position that Kawamura et al or Makoto's glass panel also inherently transmits at a ratio of 60% or more. In order for the transmission function to be given a patentable weight, it must be supported by a sufficient distinguished positive structure.
- 9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok Patel whose telephone number is 571-272-2456. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4900.

Ashok Patel
Primary Examiner
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